Do I want to run a new experiment ?

Yes
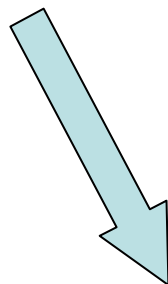
Autosubmit is designed to do so. I can find its documentation there: http://autosubmit.ic3.cat/

To know more about the models I can run and where, I have a look there: http://ic3.cat/wikicfu/index.php/Models

No, I'd like to start from the available experiments.

For the experiments run by CFU members, I can have a look there: http://visitor:8000/autosubmit_v2/default/index

For the data downloaded by the CFU members, I can have a look there: http://ic3.cat/wikicfu/index.php/Data/Experiment_Data

The raw data of my experiment or of the experiment run by another CFU member are now available there: /cfunas/exp/ecearth/expid /cfunas/exp/nemo/expid
How do I process them ?

The tools described here: http://ic3.cat/wikicfu/index.php/Tools/Postprocessing will format those data into the common format used in CFU.

How do I perform some diagnostics on those formatted data ?